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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/PEA/416							
ENT 5	International filing date (day/month/year) Priority date		Priority date (day/month/year)					
International application No.	26.05.2004	y/munin/year)						
PCT/SE2004/000818	30.05.2003							
International Patent Classification (IPC) or national classification and IPC								
A61F 2/18, H04R 25/02 // A61C 8/00								
Applicant								
Entific Medical Syste	ms AB et al							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of 3 sheets, including this cover sheet.								
3. This report is also accompanied by ANNEXES, comprising:								
a. (sent to the applican	t and to the International Bu	reau) a total of	2 sheets, as follows:					
sheets of the	description, claims and/or di	cawines which hav	been amended and are the basis of this report					
and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the								
beyond the of Supplements		sphucanou sz me	AL S MULOPERA DE 16GH 7 OF DOX 110. I SMU ME					
Court to the True-off	ional Rureau ontol a total of	(indicate type and	number of electronic carrier(s))					
o. (Sent to the Anternation			g and/or tables related thereto, in electronic					
	ted in the Supplemental Box	Relating to Seque	nce Listing (see Section 802 of the					
Administrative Instr	uctions).	·						
4. This report contains indications		18:						
Box No. I Basis	of the report .		•					
Box No. II Priorit	-							
Box No. III Non-e	stablishment of opinion with	regard to novelty	, inventive step and industrial applicability					
Box No. IV Lack	of unity of invention							
Box No. V Reaso applic	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
7-								
Box No. VII Certai	Box No. VII Certain defects in the international application							
Box No. VIII Certai	Box No. VIII Certain observations on the international application							
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Date of submission of the demand		Date of completion	on of this report					
06.12.2004		05.09.2005						
Name and mailing address of the IPEA/		Authorized officer						
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Facsimile No. +46 8 667 72 88	-1 200C)	Telephone No. +46 8 782 25 00						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

INTERNATIONAL FRELIWINARI REPORT ON FARMABILITI		WAIIONAD ARELWINARI REPORT ON FRANKISSIMATE	PCT/SE2004/000818				
Box	No. I	Basis of the report					
1.	With r	egard to the language, this report is based on:					
٠.		the international application in the language in which it was filed					
	H	a translation of the international application into					
		which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))					
		publication of the international application (Rule 12.4(a))					
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))					
2.	furnisi	ith regard to the elements of the international application, this report is based on (replacement sheets which have been nished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" d are not annexed to this report):					
		the international application as originally filed/furnished					
	\boxtimes	the description:					
		pages <u>1-6</u>	as originally filed/furnished				
		pages* received by this Authorages* received by this Authorages	onty on				
		,	mily on				
	\boxtimes	the claims:	. as originally filed/furnished				
	•	pages* as amended	(together with any statement) under Article 19				
		pages* as amended pages* 1-2 received by this Author					
		pages* received by this Author	ority on				
	\boxtimes	the drawings:					
	د ع	pages 1-3	as originally filed/furnished				
		pages* received by this Auth	ority on				
		pages* received by this Auth	ority on				
		a sequence listing and/or any related table(s) see Supplemental Box Rela	ating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:					
1		the description, pages					
			•				
		the claims, Nos.					
ļ		the drawings, sheets/figs					
		the sequence listing (specify): any table(s) related to the sequence listing (specify):					
		my work of total and and and a figure many (specify).					
4.		This report has been established as if (some of) the amendments anner made, since they have been considered to go beyond the disclosure as £ 70.2(c)).	ted to this report and listed below had not been tiled, as indicated in the Supplemental Box (Rule				
		the description, pages					
	the claims, Nos.						
	the drawings, sheets/figs						
	the sequence listing (specify):						
<u>*</u>	If ite	n 4 applies, some or all of those sheets may be marked "superseded."					

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Form PCT/IPEA/409 (Box No. I) (April 2005)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/000818

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novel	ty (N)	Claims Claims	1-8	YES NO	
	Invent	tive step (IS)	Claims Claims	1-8	YES NO	
	Indusi	trial applicability (IA)	Claims Claims	1-8	YES NO	

2. Citations and explanations (Rule 70.7)

New amended claims were filed on 12.08.2005.

The invention relates to an implant device for bone anchored hearing aids.

Relevant documents cited in the International Search Report:

1: EP 0715838 A2 2: US 4612915 A

The cited documents represent the general state of the art.

The invention defined in amended claims 1-8 is not disclosed by these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed fixture and abutment sleeve made as a pre-mounted unit by means of a screw connection. Therefore, the claimed invention is not obvious to a person skilled in the art.

According to the arguments stated above, the invention claimed in claims 1-8 is novel, considered to involve an inventive step and have industrial applicability.

Form PCT/IPEA/409 (Box No. V) (April 2005)

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CLAIMS

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1. An implant device for bone anchored hearing aids of the 5 type which comprises a screw-shaped anchoring element (fixture) (1) for anchorage in the bone tissue, an abutment sleeve (2) for skin penetration and arranged to be connected to the fixture (1) by means of a separate screw 10 connection (3) and a tool (4) for installing the implant into the bone tissue characterized that the fixture (1) and the abutment sleeve (2) are made as a pre-mounted unit by means of the screw connection (3) which unit is arranged to be installed in one step by me-15 ans of said tool (4) which is arranged to cooperate with a tool engaging portion (5) on the abutment sleeve (2).

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- 2. An implant device according to claim 1 characterized in that the fixture (1) is a self-tapping fixture and provided with a flange (1b).
- 3. An implant device according to claim 1 characterized in that the tool engaging portion (5) on the abutment sleeve comprises a number of symmetrically arranged recesses or holes (8).
- 4. An implant device according to claim 3 characterized in that the tool (4) is provided with a lower, central protruding portion (15) with a number of peripherally located, in the longitudinal direction of the tool extending spikes (16) which spikes during tightening, insertion of the implant unit, are arranged to cooperate with said holes or recesses (8) on the abutment sleeve (2).
- 5. An implant device according to claim 1 c h a r a c in that the tool (4) comprises a first terized connecting part (6) for installation of the pre-mounted

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implant device by means of a machine driver as well as a second connecting part (7) for manual insertion of the implant device.

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- 5 6. An implant device according to claim 1 c h a r a c terized in that the tool (4) comprises a resilient ring (9) for cooperation with the edge (10) of the abutment sleeve in order to provide a lifting function.
- 10 An implant device according to claim 6 charac-7. terized in that the pre-mounted implant device is delivered steril in a plastic package (11) comprising a titanium packaging sleeve (12) in order to retain the implant device in a predetermined position in the plastic 15 package (11), and after the plastic package (11) has been broken before use the implant device is arranged to be separated from the titanium packaging sleeve (12) by means . of said tool (4) and its lifting function.
- 20 8. An implant device according to claim 7 characterized in that a sealing ring (18) is arranged on the cylindrical outer surface of the plastic package (11) to provide a tightening between the plastic package and a screw lid (17), said sealing ring (18) being adjustable in the longitudinal direction to provide a tighte-25 ning even for different positions of the lid (17) on the package.

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